In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

--Claim 1 (presently amended): A reversible cyclic peptide adduct comprising a boric or boronic acid complexed with a cyclic <u>Echinocandin</u> peptide having at least one 1,2-cis-diol moiety wherein said adduct is more water-soluble than said cyclic <u>Echinocandin</u> peptide having at least one 1,2-cis-diol moiety.

Claim 2 (previously presented): The reversible adduct of Claim 1 wherein said boronic acid is selected from the group consisting of alkylboronic acids, heterocycloalkyl boronic acids, arylboronic acids, and heteroarylboronic acids.

Claim 3 (previously presented): The reversible adduct of Claim 1 wherein said boronic acid is selected from the group consisting of ethylboronic acid, propylboronic acid, butylboronic acid, tetrahydrofuranylboronic acid, phenylboronic acid, o-methylphenyl-boronic acid, maninophenylboronic acid, p-methylphenyl-boronic acid, p-carboxyphenylboronic acid, [o-(diisopropylamino)carbonyl] phenylboronic acid, o-formylphenylboronic acid, m-formylphenylboronic acid, p-methoxyphenylboronic acid, p-nitrophenylboronic acid, p-fluorophenylboronic acid, p-bromophenylboronic acid, p-trifluoromethylphenylboronic acid, 4,4'-diphenyldiboronic acid, 1-naphthylboronic acid, thiophene-2-boronic acid, thiophene-3-boronic acid, 2-formylthiophene-2-boronic acid, 5-chlorothiophene-2-boronic acid, indole-5-boronic acid, benzo[b]thiophene-2-boronic acid, benzo[b]furan-2-boronic acid, indole-5-boronic acid.

Claim 4 (presently amended): The reversible adduct of Claim 1 having the following structure

wherein R is a hydroxy, an alkoxy group, a phenoxy group, an alkyl group, a phenyl group, a thiol, a thioalkyl group, or a thiophenyl group; R^1 is -H or -C(O) R^{1a} where R^{1a} is an alkyl group, an alkenyl group, an alkynyl group, an aryl group, or heteroaryl group; R^2 is -H or -CH₃; R^3 is -H, -CH₃, -CH₂CONH₂ or -CH₂CH₂NH₂; R^4 is -H or -OH; R^5 is -OH, -OPO₃H₂, or -OSO₃H; R^6 is -H or -OSO₃H; R^7 is -CH₃; and X^+ is a cation.

Claim 5 (previously presented): The reversible adduct of Claim 4 wherein R is a *m*-aminophenyl group.

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Claim 6 (previously presented): The reversible adduct of Claim 4 wherein R^{1a} has the following structure

Claim 7 (presently amended): A method for forming a reversible cyclic peptide adduct comprising the steps of

- (i) providing an aqueous solution of a boric or boronic acid,
- (ii) adding a cyclic <u>Echinocandin</u> peptide compound having at least one 1,2-cis-diol moiety to said aqueous solution, and
- (iii) adjusting the pH of said aqueous solution to a value sufficient to effect complexation between said boric or boronic acid and said cyclic Echinocandin peptide compound under alkaline conditions;

wherein said adduct more water-soluble than said cyclic Echinocandin peptide having at least one 1,2-cis-diol moiety.

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Claim 8 (presently amended):

The method of Claim 7 wherein said cyclic

Echinocandin peptide has the following structure

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wherein R^1 is -H or -C(O) R^{1a} where R^{1a} is an alkyl group, an alkenyl group, an alkynyl group, an aryl group, or heteroaryl group; R^2 is -H or -CH₃; R^3 is -H, -CH₃, -CH₂CONH₂ or -CH₂CH₂NH₂; R^4 is -H or -OH; R^5 is -OH, -OPO₃H₂, or -OSO₃H; and R^6 is -H or -OSO₃H; and R^7 is -CH₃;

Claim 9 (previously presented): The method of Claim 7 wherein said boronic acid is selected from the group consisting of alkylboronic acids, heterocycloalkyl boronic acids, arylboronic acids, and heteroarylboronic acids.

Claim 10 (previously presented): The method of Claim 7 wherein said boronic acid is selected from the group consisting of ethylboronic acid, propylboronic acid, butylboronic acid, tetrahydrofuranylboronic acid, phenylboronic acid, o-methylphenyl-boronic acid, m-aminophenylboronic acid, p-methylphenyl-boronic acid, p-carboxyphenylboronic acid, [o-(diisopropylamino)carbonyl] phenylboronic acid, o-formylphenylboronic acid, m-

formylphenylboronic acid, *p*-methoxyphenylboronic acid, *p*-nitrophenylboronic acid, *p*-fluorophenylboronic acid, *p*-trifluoromethylphenylboronic acid, 4,4'-diphenyldiboronic acid, 1-naphthylboronic acid, thiophene-2-boronic acid, thiophene-3-boronic acid, 2-formylthiophene-2-boronic acid, 5-chlorothiophene-2-boronic acid, 5-acetylthiophene-2-boronic acid, benzo[b]thiophene-2-boronic acid, benzo[b]furan-2-boronic acid, indole-5-boronic acid.

Claim 11 (previously presented): The method of Claim 7 wherein said aqueous solution is adjusted to a pH value between 7.5 and 9.5.

Claim 12 (presently amended): A method for purifying a cyclic <u>Echinocandin</u> peptide having a 1,2-cis-diol moiety comprising in the following order the steps of

- (i) providing a crude mixture of a cyclic <u>Echinocandin</u> peptide having a least one 1,2-cis-diol functionality,
- (ii) complexing said at least one 1,2-cis-diol functionality of said cyclic <u>Echinocandin</u> peptide with a boric or boronic acid to form a reversible adduct,

wherein said adduct is more water-soluble than said cyclic Echinocandin peptide having at least one 1,2-cis-diol moiety,

- (iii) solubilizing said reversible adduct in an aqueous solution,
- (iv) removing any insoluble materials from said aqueous solution,
- (v) acidifying said aqueous solution to a pH value equal to or less than the pK_a of said boric or boronic acid, and
- (vi) recovering said cyclic Echinocandin peptide from said aqueous solution.

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Claim 13 (presently amended): A method of purifying a 1,2-cis-diol cyclic Echinocandin peptide comprising in the following order the steps of

- (a) providing a crude mixture of a cyclic <u>Echinocandin</u> peptide having a least one 1,2cis-diol functionality,
- (b) complexing said at least one 1,2-cis-diol functionality of said cyclic <u>Echinocandin</u> peptide with a boric or boronic acid to form a reversible adduct,

wherein said adduct is more water-soluble than said cyclic Echinocandin peptide having at least one 1,2-cis-diol moiety,

- (c) solubilizing said reversible adduct in an aqueous solution,
- (d) concentrating said aqueous solution to form a concentrate,
- (e) absorbing said concentrate onto a reverse-phase hydrophobic resin packed in a chromatography column,
- (f) eluting with an aqueous solvent system, and
- (g) combining effluent fractions containing said reversible adduct into a single effluent solution.
- (h) acidifying said effluent solution to a pH value equal to or less than the pK_a of said boric or boronic acid to decomplex said reversible adduct, and
- (i) recovering said cyclic <u>Echinocandin</u> peptide from said acidified effluent solution.

Claim 14 (presently amended): A pharmaceutical formulation comprising a reversible adduct comprising a complex of a boric or boronic acid with a cyclic <u>Echinocandin</u> peptide having a 1,2-cis-diol moiety.

wherein said adduct is more water-soluble than said cyclic Echinocandin peptide having at least one 1,2-cis-diol moiety.

Claim 15 (previously presented): The pharmaceutical formulation of Claim 14 further comprising a pharmaceutically inert carrier.

Claim 16 (previously presented): The pharmaceutical formulation of Claim 15 wherein said inert carrier is water.

Claim 17 (previously presented): The pharmaceutical composition of Claim 14 further comprising a wetting agent, lubricating agent, emulsifier, suspending agent, preservative, sweetener, stabilizer, perfuming agent, flavoring agent or combinations thereof.

Claim 18 (presently amended): The pharmaceutical formulation of Claim 14 wherein said reversible adduct has the following structure

wherein R is a hydroxy, an alkoxy group, a phenoxy group, an alkyl group, a phenyl group, a thiol, a thioalkyl group, or a thiophenyl group; R^1 is -H or -C(O) R^{1a} where R^{1a} is an alkyl group, an alkenyl group, an alkynyl group, an aryl group, or heteroaryl group; R^2 is -H or -CH₃; R^3 is -H, -CH₃, -

CH₂CONH₂ or -CH₂CH₂NH₂; R^4 is -H or -OH; R^5 is -OH, -OPO₃H₂, or -OSO₃H; R^6 is -H or -OSO₃H; R^7 is -CH₃; X^+ is a cation; and pharmaceutically acceptable hydrates, esters and salts thereof.

Claim 19 (previously presented): The pharmaceutical formulation of Claim 18 wherein R is a *m*-aminophenyl group.

Claim 20 (presently amended): A method for treating a fungal infection comprising in the following order the steps of

- (a) providing a host in need of treatment for a fungal infection,
- (b) administrating administering an effective dose of a reversible adduct according to Claim 4, and
- (c) decomplexing said reversible adduct to release a pharmaceutically active 1,2-cis-diol, cyclic peptide.

Claim 21 (previously presented): The method of Claim 20 wherein said reversible adduct is administered by means of an aqueous solution.

Claim 22 (previously presented): The method of Claim 20 wherein said reversible adduct is administered by means of an aqueous IV solution.